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11032 U.S. PAT. & TM. OFF.

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PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0851-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. YOR9-2001-0011US1(8728-481)

First Inventor Martin Franz

Title DYNAMIC LANGUAGE MODEL MIXTURES...

Express Mail Label No. EL679454109US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 36]
(preferred arrangement set forth below)
- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table,
or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 4]
5. Oath or Declaration [Total Pages 2]
a. ☒ Newly executed (original or copy)
Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 17 completed)
b. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. ☐ Computer Readable Form (CRF)
b. Specification Sequence Listing on:
i. ☐ CD-ROM or CD-R (2 copies); or
ii. ☐ paper
c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☒ Power of
(when there is an assignee) Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure ☐ Copies of IDS
Statement (IDS)/PTO-1449 Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☒ Other: Associate Power of
Attorney.....

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,
or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: _____/_____

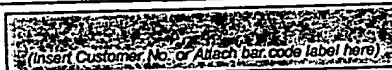
Prior application information:

Examiner _____

Group / Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under
Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.
The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Labelor ☐ Correspondence address below

Name

Frank Chau, Esq.

Address

F. CHAU & ASSOCIATES, LLP

City

1900 Hempstead Turnpike, Suite 501

Country

East Meadow

State

New York

Zip Code

11554

Telephone

516-357-0091

Fax

516-357-0092

Name (Print/Type)

Gaspare J. Randazzo

Registration No. (Attorney/Agent)

41,528

Signature

Date 2/12/2001

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the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC
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**FEE TRANSMITTAL
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 822.00**Complete if Known**

| | |
|----------------------|------------------------------|
| Application Number | |
| Filing Date | February 12, 2001 |
| First Named Inventor | Martin Franz |
| Examiner Name | |
| Group Art Unit | |
| Attorney Docket No. | YOR9-2001-0011US1 (8728-481) |

METHOD OF PAYMENT

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

| | |
|------------------------|----------------------|
| Deposit Account Number | 50-0510/IBM |
| Deposit Account Name | IBM/Yorktown Heights |

- ☒
- Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
-
- ☐
- Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other
FEE CALCULATION**1. BASIC FILING FEE**

| Large Entity Code | Small Entity Code | Fee (\$) | Fee Description | Fee Paid | |
|-------------------|-------------------|----------|-----------------|------------------------|-----|
| 101 | 710 | 201 | 355 | Utility filing fee | 710 |
| 106 | 320 | 206 | 160 | Design filing fee | |
| 107 | 490 | 207 | 245 | Plant filing fee | |
| 108 | 710 | 208 | 355 | Reissue filing fee | |
| 114 | 150 | 214 | 75 | Provisional filing fee | |

SUBTOTAL (1) (\$ 710.00)**2. EXTRA CLAIM FEES**

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|---------------------|--------------|----------------|----------|
| 24 | 20** = 4 | 18 | 72 |
| 3 | 3** = 0 | 80 | 0 |
| Multiple Dependent: | | 270 | |

| Large Entity Code | Small Entity Code | Fee (\$) | Fee Description | |
|-------------------|-------------------|----------|-----------------|--|
| 103 | 18 | 203 | 9 | Claims in excess of 20 |
| 102 | 80 | 202 | 40 | Independent claims in excess of 3 |
| 104 | 270 | 204 | 135 | Multiple dependent claim, if not paid |
| 109 | 80 | 209 | 40 | ** Reissue independent claims over original patent |
| 110 | 18 | 210 | 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 72.00)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

| Large Entity Code | Small Entity Code | Fee (\$) | Fee Description | Fee Paid | |
|-------------------|-------------------|----------|-----------------|--|----|
| 105 | 130 | 205 | 65 | Surcharge - late filing fee or oath | |
| 127 | 50 | 227 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| 139 | 130 | 139 | 130 | Non-English specification | |
| 147 | 2,520 | 147 | 2,520 | For filing a request for <i>ex parte</i> reexamination | |
| 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examiner action | |
| 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action | |
| 115 | 110 | 215 | 55 | Extension for reply within first month | |
| 116 | 390 | 216 | 195 | Extension for reply within second month | |
| 117 | 890 | 217 | 445 | Extension for reply within third month | |
| 118 | 1,390 | 218 | 695 | Extension for reply within fourth month | |
| 128 | 1,890 | 228 | 945 | Extension for reply within fifth month | |
| 119 | 310 | 219 | 155 | Notice of Appeal | |
| 120 | 310 | 220 | 155 | Filing a brief in support of an appeal | |
| 121 | 270 | 221 | 135 | Request for oral hearing | |
| 138 | 1,510 | 138 | 1,510 | Petition to institute a public use proceeding | |
| 140 | 110 | 240 | 55 | Petition to revive - unavoidable | |
| 141 | 1,240 | 241 | 620 | Petition to revive - unintentional | |
| 142 | 1,240 | 242 | 620 | Utility issue fee (or reissue) | |
| 143 | 440 | 243 | 220 | Design issue fee | |
| 144 | 600 | 244 | 300 | Plant issue fee | |
| 122 | 130 | 122 | 130 | Petitions to the Commissioner | |
| 123 | 50 | 123 | 50 | Petitions related to provisional applications | |
| 126 | 240 | 126 | 240 | Submission of Information Disclosure Stmt | |
| 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | 40 |
| 146 | 710 | 246 | 355 | Filing a submission after final rejection (37 CFR § 1.129(a)) | |
| 149 | 710 | 249 | 355 | For each additional invention to be examined (37 CFR § 1.129(b)) | |
| 179 | 710 | 279 | 355 | Request for Continued Examination (RCE) | |
| 169 | 900 | 169 | 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)**SUBMITTED BY**

Name (Print/Type) Gaspare J. Randazzo

Registration No.
(Attorney/Agent)

41,528

Complete (if applicable)

Telephone (516) 357-0091

Signature

Gaspare J. Randazzo

Date

2/12/2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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Assistant Commissioner for Patents
Washington, D.C. 20231
Sir:

ATTORNEY DOCKET: YOR9-2001-0011US1(8728-481)

Date: February 12, 2001

Express Mail Label: EL679454109US

Date of Deposit: February 12, 2001

Transmitted herewith for filing is the Patent Application of:

Inventors: MARTIN FRANZ AND PEDER ANDREAS OLSEN

For: DYNAMIC LANGUAGE MODEL MIXTURES WITH HISTORY-BASED BUCKETS

Enclosed are: [X] 25 sheets of specification; [X] 1 sheet(s) of Abstract; [X] 10 sheet(s) of claims; [X] 4 sheet(s) of drawing(s);

[X] An assignment of the invention to: International Business Machines Corporation, Armonk, New York, with Recordation Form.

[X] Declaration and Power of Attorney.

[] A certified copy of a _____ application, from which priority under Title 35 USC §119 is claimed.

[X] Associate Power of Attorney.

The filing fee has been calculated as shown below:

| (Col. 1) | | (Col. 2) | OTHER THAN A SMALL ENTITY | |
|---|-----------|-----------|------------------------------|----------|
| FOR: | NO. FILED | NO. EXTRA | RATE | FEE |
| BASIC FEE | | | | \$710.00 |
| TOTAL CLAIMS | 24-20 = | 4 | X \$18 = | 72.00 |
| INDEP CLAIMS | 3-3 = | 0 | X \$80 = | 0 |
| ____ MULTIPLE DEPENDENT CLAIMS PRESENTED | | | + 270 = | |
| If the difference in Col. 1 is less than zero, enter "0" in Col. 2. | | | TOTAL | \$782.00 |

[] A check in the amount of \$_____ to cover the [] filing fee(s), [] recording fee is enclosed.

[X] Please charge my Deposit Account No. 50-0510/IBM (Yorktown Heights) in the amount of \$782.00.

[X] The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-0510/IBM (Yorktown Heights). A duplicate copy of this sheet is enclosed.

[X] Any additional filing fees required under 37 CFR 1.16.

[X] Any patent application processing fees under 35 CFR 1.17.

Respectfully submitted,

By: Gaspere J. Randazzo
Gaspere J. Randazzo
Registration No. 41,528.

Please address all
correspondence to:
F. CHAU & ASSOCIATES, LLP
1900 Hempstead Tpke., Suite 501
East Meadow, NY 11554
Tel: (516) 357-0091
Fax: (516) 357-0092

Attorney for:
IBM Corporation
Intellectual Property Law Dept.
P.O. Box 218
Yorktown Heights, NY 10598

CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that this Application transmittal and documents referred to as enclosed are being deposited with the United States Postal Service on this date February 12, 2001 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL679454109US addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Gaspere J. Randazzo
Gaspere J. Randazzo

15996 U.S. PTO
09/782434
02/13/01